

The Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) A grinder for grinding materials, the grinder comprising:
 - a grinder housing;
 - a grinding burr assembly retained in the housing;
 - the grinding burr assembly having a pair of grinding burrs for grinding material therebetween; [[and]]
 - a first burr having a first grinding surface;
 - a second burr having a second grinding surface retained generally in opposition to first grinding surface of the first burr;
 - a grinder drive;
 - the first burr is a rotatable burr coupled to the grinder drive;
 - the second burr is a generally non-rotatable burr adjustably retained in the grinder housing;
 - a controllable burr adjuster operatively coupled to the grinding burr assembly for controllably adjusting ~~at least one of the grinding burrs~~ a space between the burrs first and second grinding surfaces; and
 - the controllable burr adjuster couple to and moving with the gear adjusted by the adjuster.
 - 2.-4. (canceled)
 - 5. (currently amended) The grinder for grinding material ~~as in claim 4 as in claim 1~~, wherein:
 - the non-rotatable burr includes gear teeth on an exterior surface;
 - the burr adjuster includes a controllable gear drive engaged with gear teeth on the non-rotatable burr; and
 - the controllable gear drive controllably moving the non-rotatable burr.
 - 6. (canceled)
 - 7. (currently amended) The grinder for grinding material ~~as in claim 6 as in claim 1~~, wherein the adjuster body is threadedly engaged with the housing, the controllable burr adjustment drive is

engaged with the adjuster body, the burr adjuster drive is a rotating drive for controllably rotating the adjuster body to controllably adjust a space between the rotatable burr and non-rotatable burr.

8. (original) The grinder for grinding material as in claim 7, further comprising a biasing device retained in the grinder housing abutting one of the rotatable burr and non-rotatable burr in opposition to the adjuster to provide a biasing force on the grinding burrs.

9.-12. (canceled)

13. (currently amended) A coffee grinder for grinding coffee beans, the coffee grinder comprising:

a grinder housing;

a controllable grinding assembly retained in the housing;

the grinding assembly having a bean grinding assembly for grinding coffee beans into particles of a generally predetermined size range;

the bean grinding assembly having at least one grinding surface for grinding coffee beans;

a gap being defined between the grinding surface and an opposing structure between which coffee beans are ground;

an adjuster a controllable adjuster operatively coupled to the bean grinding assembly for controllably adjusting a dimension of the [[gap]] gap;

the adjuster including a grinder drive;

the grinding surface is a rotatable burr coupled to the grinder drive; and

the controllable adjuster couple to and moving with the gear adjusted by the adjuster.

14. (original) The coffee grinding as in claim 13, the bean grinding assembly further comprising:

a first burr having a first grinding surface;

a second burr having a second grinding surface retained generally in opposition to first grinding surface of the first burr; and

the burr adjuster coupled to at least one of the first burr and second burr for controllably adjusting the gap between the first grinding surface and the second grinding surface.

15. (original) The coffee grinder as in claim 14, the bean grinding assembly further comprising:

a grinder drive;

the first burr is a rotatable burr coupled to the grinder drive;
the second burr is a generally non-rotatable burr retained in the grinder housing; and
the adjuster is coupled to one of the rotatable burr and the non-rotatable burr for
controllably adjusting the gap between the rotatable burr and non-rotatable burr.

16. (original) The coffee grinder as in claim 15, further comprising:

the non-rotatable burr being adjustably retained in the housing; and
the adjuster is controllably coupled to the non-rotatable burr for controllably moving the
non-rotatable burr relative to the rotating burr.

17. (original) The coffee grinder as in claim 16, further comprising:

gear teeth on an exterior surface of the non-rotatable burr;
a controllable gear drive of the non-rotatable burr engaged with gear teeth on the non-
rotatable burr; and
the controllable gear drive controllably moving the non-rotatable burr.

18. (original) The coffee grinder as in claim 15, the adjuster comprising:

a controllable adjustment drive;
an adjuster body coupled to one of the rotatable and non-rotatable burrs; and
the adjustment drive controllably moving the adjuster body for controllably moving the
associated burr.

19. (original) The coffee grinder as in claim 18, the adjuster body being threadedly engaged with
a portion of the housing, the controllable burr adjustment drive is engaged with the adjuster
body, the burr adjuster drive is a rotating drive for controllably rotating the adjuster body to
controllably adjust a space between the rotatable burr and non-rotatable burr.

20. (original) The coffee grinder as in claim 19, further comprising a biasing device retained
proximate to the bean grinding assembly abutting one of the rotatable burr and non-rotatable burr
in opposition to the adjuster to provide a biasing force on the grinding burrs.

21.-24. (canceled)

25. (new) A grinder for grinding materials, the grinder comprising:

a grinder housing;
 a grinding burr assembly retained in the housing;
 the grinding burr assembly having a pair of grinding burrs for grinding material therebetween;
 a first burr having a first grinding surface;
 a second burr having a second grinding surface retained generally in opposition to first grinding surface of the first burr;
 a grinder drive;
 the first burr is a rotatable burr coupled to the grinder drive;
 the second burr is a generally non-rotatable burr adjustably retained in the grinder housing;
 a controllable burr adjuster operatively coupled to the grinding burr assembly for controllably adjusting a space between the burrs first and second grinding surfaces;
 at least one gap sensor coupled to and operatively associated with the grinder burr assembly and the controllable burr adjuster for monitoring the gap the controllably adjusting the gap in response to the gap monitored; and
 the controllable burr adjuster couple to and moving with the gear adjusted by the adjuster.

26. (new) The grinder for grinding material as in claim 1, wherein:

 the controllable burr adjuster operatively coupled to the rotating burr of the grinding burr assembly for controllably adjusting a space between the burrs first and second grinding surfaces.

27. (new) The grinder for grinding material as in claim 26, wherein the controllable burr adjuster is spring biased to spread the gap between the first and second burr and the controllable burr adjuster act against the spring biased portion to adjust the first and second burrs.

28. (new) The coffee grinder as in claim 13, wherein:

 the controllable burr adjuster operatively coupled to the rotating burr of the grinding burr assembly for controllably adjusting a space between the burrs first and second grinding surfaces.

29. (new) The coffee grinder as in claim 28, wherein the controllable burr adjuster is spring biased to spread the gap between the first and second burr and the controllable burr adjuster act against the spring biased portion to adjust the first and second burrs.